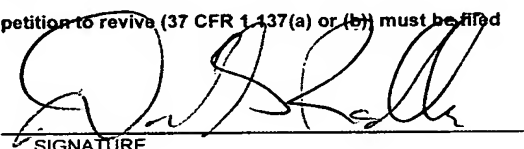


|   |  |  |
|---|--|--|
| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>   |  | <b>ATTORNEY'S DOCKET NUMBER</b><br>520514.00022                      |
| <b>INTERNATIONAL APPLICATION NO.</b><br>PCT/JP2003/009032   |  | <b>U.S. APPLICATION NO. (If known, see 37 CFR 1.5)</b><br>10/521.233 |
| <b>INTERNATIONAL FILING DATE</b><br>16 July 2003 (16.07.03)   |  | <b>PRIORITY DATE CLAIMED</b><br>16 July 2002 (16.07.02)              |
| <b>TITLE OF INVENTION</b><br>COMPOSITE NANOPARTICLE AND PROCESS FOR PRODUCING THE SAME  |  |  |
| <b>APPLICANT(S) FOR DO/EO/US</b><br>ISOBE, Tetsuhiko; HATTORI, Yasushi; ITOH, Shigeo  |  |  |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:   |  |  |
| <p>1. <input type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input checked="" type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))</p> <p>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</p> <p>b. <input type="checkbox"/> has been communicated by the International Bureau.</p> <p>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).</p> <p>a. <input type="checkbox"/> is attached hereto.</p> <p>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</p> <p>b. <input type="checkbox"/> have been communicated by the International Bureau.</p> <p>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</p> <p>d. <input type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> <p><b>Items 11 to 20 below concern document(s) or information included:</b></p> <p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input checked="" type="checkbox"/> Other items or information: <b>Response to Notification of Missing Requirements; Copy of Notice of Missing Requirements, Form PCT/EO/905; Postcard Receipt</b></p> |  |  |

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

|  |              |   |            |   |                           |
|--|--------------|---|------------|---|---------------------------|
| U.S. APPLICATION NO. (if known, see 37 CFR 1.5)<br><b>10/521,233</b>   |              | INTERNATIONAL APPLICATION NO.<br><b>PCT/JP2003/009032</b>                     |            | ATTORNEY'S DOCKET NUMBER<br><b>520514.00022</b> |                           |
| 21. The following fees are submitted:  |              |   |            |   |                           |
| <input checked="" type="checkbox"/> a) Basic national fee.....   |              |   |            | \$300.00  | \$                        |
| <input checked="" type="checkbox"/> b) Examination fee.....  |              |   |            | \$200.00  | \$                        |
| <input checked="" type="checkbox"/> c) Search fee.....   |              |   |            | \$500.00  | \$                        |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>   |              |   |            | <b>\$1000.00</b>                                | \$                        |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.   |              |   |            |   |                           |
| Total Sheets   | Extra sheets | Number of each additional 50 or fraction thereof (round up to a whole number) |            | RATE  |                           |
| - 100 =  | /50 =        |   |            | x \$250.00                                      | \$                        |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).   |              |   |            |   | \$                        |
| CLAIMS   | NUMBER FILED | NUMBER EXTRA  | RATE       |   | \$                        |
| Total claims   | - 20 =       |   | x \$50.00  |   | \$                        |
| Independent claims   | - 3 =        |   | x \$200.00 |   | \$                        |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)  |              |   | + \$360.00 |   | \$                        |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>   |              |   |            |   | \$                        |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.   |              |   |            |   | \$                        |
| <b>SUBTOTAL =</b>  |              |   |            |   | \$                        |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).  |              |   |            |   | \$ 130.00                 |
| <b>TOTAL NATIONAL FEE =</b>  |              |   |            |   | \$ 130.00                 |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property   |              |   |            |   | \$                        |
| <b>TOTAL FEES ENCLOSED =</b>   |              |   |            |   | \$ 130.00                 |
|  |              |   |            |   | Amount to be refunded: \$ |
|  |              |   |            |   | Amount to be charged: \$  |
| <p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>17-0055</u> in the amount of \$ <u>130.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>17-0055</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p> |              |   |            |   |                           |
| <p><b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <p><b>QUARLES &amp; BRADY LLP</b><br/>411 E. Wisconsin Ave.<br/>Milwaukee, WI 53202<br/>(414) 277-5000<br/>(414) 271-3552 (Fax)</p>  |              |   |            |   |                           |
| <br>SIGNATURE<br>Daniel G. Radler<br>NAME<br>43,028<br>REGISTRATION NUMBER   |              |   |            |   |                           |

Rec'd PCT/PFO 28 JUL 2005

EXPRESS MAIL LABEL NO. EV733588040US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

U.S. National Phase Application Corresponding To:

USSN: 10/521,233  
PCT Application: PCT/JP03/09032  
International  
I.A. Filing Date: 16 July 2003  
Priority Date: 16 July 2002  
Applicant: ISOBE, et al.  
Docket No.: 520514.00022

United States Patent  
and Trademark Office  
MAIL STOP PCT  
P.O. BOX 1450  
Alexandria, VA 22313-1450

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RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS  
UNDER 35 U.S.C. 371

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Dear Sir:

In response to the Notification of Missing Requirements Under 35 U.S.C. 371 under date of mailing of 25 July 2005, a copy of which is attached hereto and incorporated herein by reference, applicant hereby provides the following information and/or documentation:

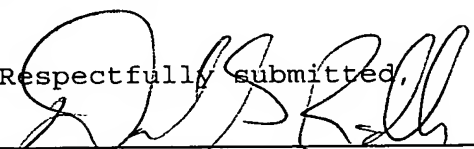
1. Combined Declaration for Patent Application and Power of Attorney signed by Applicants, Tetsuhiko Isobe, Yasushi Hattori, Shigeo Itoh, and Hisamitsu Takahashi.

The Commissioner is hereby authorized to charge Deposit Account 17-0055 in the amount of \$130.00 for the fee required for furnishing the oath or declaration later than 30 months from the earliest claimed priority date pursuant to 37 CFR 1.492(3). The Commissioner is further authorized to charge any additional fees which may be required, or credit any overpayment, to Deposit Account No. 17-0055.

28 July 2005

Respectfully submitted,

By:

  
Daniel G. Radler  
QUARLES & BRADY LLP  
411 East Wisconsin Avenue  
Milwaukee, WI 53202  
Reg. No.: 43,028  
(414) 277-5749



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

|                             |                       |                  |
|-----------------------------|-----------------------|------------------|
| U.S. APPLICATION NUMBER NO. | FIRST NAMED APPLICANT | ATTY. DOCKET NO. |
| 10/521,233                  | Tetsuhiko Isobe       | 520514-00022     |

|                               |
|-------------------------------|
| INTERNATIONAL APPLICATION NO. |
|-------------------------------|

PCT/JP03/09032

|                 |               |
|-----------------|---------------|
| IA. FILING DATE | PRIORITY DATE |
| 07/16/2003      | 07/16/2002    |

Quarles & Brady  
411 E Wisconsin Ave  
Milwaukee, WI 53202

CONFIRMATION NO. 8670

371 FORMALITIES LETTER



\*OC000000016597188\*

Date Mailed: 07/25/2005

**NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)**

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 01/13/2005
- English Translation of the IA filed on 01/13/2005
- Copy of the International Search Report filed on 01/13/2005
- Preliminary Amendments filed on 01/13/2005
- U.S. Basic National Fees filed on 01/13/2005

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- \$130 Surcharge for providing the oath or declaration later than 30 months from the priority date (37 CFR 1.492(e)) is required.

**SUMMARY OF FEES DUE:**

Total additional fees required for this application is \$130 for a Large Entity:

- \$130 Late oath or declaration Surcharge.

Quarles & Brady LLP  
Intellectual Property Dept.  
RECEIVED: 7-28-05  
FEE DUE: 9-25-05

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions

of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

JOHN L ANDERSON

Telephone: (703) 308-9140 EXT 211

PART 1 - ATTORNEY/APPLICANT COPY

| U.S. APPLICATION NUMBER NO. | INTERNATIONAL APPLICATION NO. | ATTY. DOCKET NO. |
|-----------------------------|-------------------------------|------------------|
| 10/521,233                  | PCT/JP03/09032                | 520514-00022     |